cited Reference 5 .

PATENT ABSTRACTS OF JAPAN

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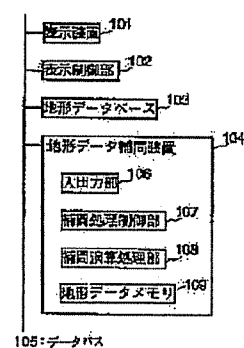(21)Application number : 07-261732   (71)Applicant :   OKI ELECTRIC IND CO LTD
(22)Date of filing :   09.10.1995   (72)Inventor :   YASUDA MAKOTO

(54) TOPOGRAPHY DATA INTERPOLATION DEVICE

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a topography·data interpolation device which can reflect the fine variation pattern of real topography on an interpolation value when topography is divided into mesh structures and given altitude data is interpolated.
SOLUTION: An interpolation arithmetic processing part 108 which obtains an interpolation point coordinate dividing the size of the mesh of altitude data into two by a mesh division processing, selects a latest contact point in an orthogonal position relation for the respective interpolation point coordinates, divides the whole areas of interpolation objects into the areas of high correlation of altitude fluctuation, calculates random numbers having distribution equal to altitude variance in the divided areas, calculates the altitude of the interpolation points by adding the value of the random numbers to the altitude average value of the latest contact points of the interpolation points in the pertinent area and repeats an altitude calculation processing for re-interpolation points obtained by re-dividing the mesh size by the number of dividing times, which is previously set, is provided.

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